

US-PAT-NO: 5783511

DOCUMENT-IDENTIFIER: US 5783511 A

TITLE: Process for selecting raw material and  
making a bleaching clay

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Detailed Description Text - DETX (31):

A sample of 0.200. $\pm$ .0.005 g air dried bleaching clay product was suspended to 20 ml distilled water to form a 1 % suspension and equilibrated for 20 minutes before the measurement of suspension pH. A 20 ml sample of the water extract from a 1% clay suspension was used for the measurement of solution pH. The suspension and the solution aliquots were placed in a temperature controlled water bath maintained at 25. $\pm$ .0.1 degrees Celsius and titrated with calibrated 0.01N NaOH and 0.1N NaOH solutions using a Dosimat titrator. The base addition rate was in the range of 0.1-0.6 ml/min and 0.01-0.2 ml/min for the 0.01N and 0.1N NaOH solutions, respectively. The rate was selected depending on the sample acidity, and was kept constant throughout each titration. The 0.1N NaOH solution was used for H.sub.2 SO.sub.4 added at 7.5 and 10 weight percent. When using the slowest rate to titrate high-acidity clay, the titration took about 10 hours, compared to the usual duration of 15-25 minutes. At least two replicate titrations were conducted for each clay. The experimental error was generally less than 5% for titration volumes larger than 0.3 ml base.